# EXHIBIT 6

#### **EXHIBIT C**

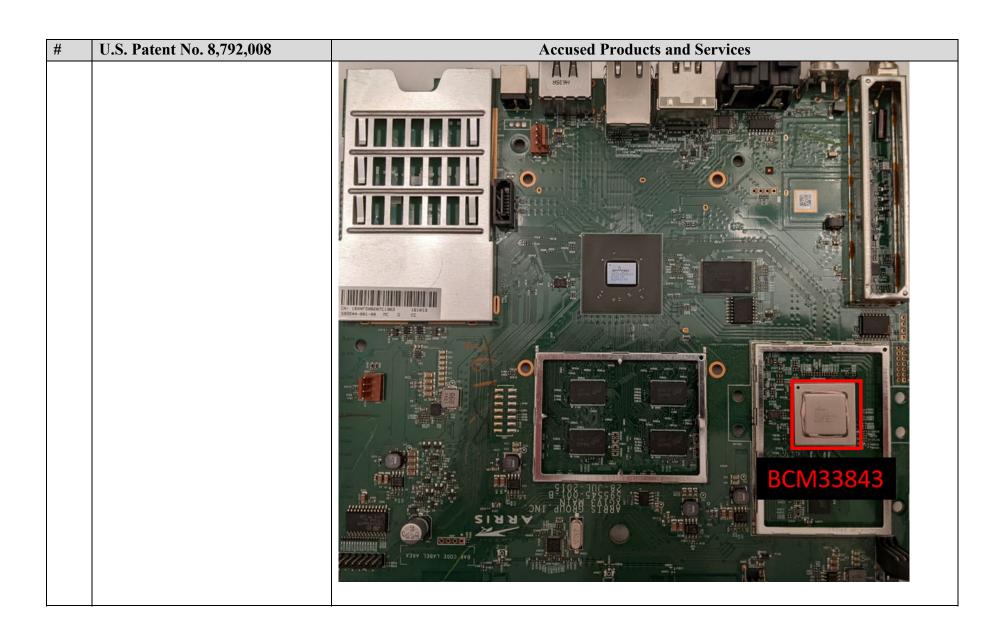
#### U.S. Patent No. 8,792,008 (the "'008 Patent") Exemplary Infringement Chart

Comcast operates and maintains a nationwide television and data network through which it sells, leases, and offers for sale products and services, including the Technicolor TC8717 cable modem, Technicolor CGM4140 cable modem, Technicolor CGM4331 cable modem, and products that operate in a similar manner ("Accused Cable Modem Products"), as well as the Arris AX013ANC STB, Arris AX013ANM STB, Arris AX014ANC STB, Arris AX014ANM STB, Arris MX011ANC STB, Pace PX013ANC STB, Pace PX013ANM STB, Pace PX022ANC STB, Pace PX022ANM STB, Samsung SX022ANC STB, Samsung SX022ANM STB, and products that operate in a similar manner ("Accused Set Top Products"). Comcast provides cable television and internet services ("Accused Services") via the lease, sale, and/or distribution of the Accused Cable Modem Products and/or the Accused Set Top Products. Comcast literally and/or under the doctrine of equivalents infringes the claims of the '008 Patent by making, using, selling, offering for sale, and/or importing the Accused Services, Accused Cable Modem Products, and/or the Accused Set Top Products.

As shown below in the chart with exemplary support, the Accused Services infringe at least claims 1-6, 9, and 10 of U.S. Patent No. 8,792,008 ("'008 Patent"). The '008 Patent was filed September 10, 2012, issued July 29, 2014, and is entitled "Method and Apparatus for Spectrum Monitoring." The '008 Patent claims priority to U.S. Provisional Patent Application No. 61/532,098, entitled "Method and Apparatus for Spectrum Monitoring" and filed on September 8, 2011. Furthermore, the claims of the '008 Patent are entitled to a conception date of at least as early as February 15, 2011.

The Accused Set Top Products and the Accused Cable Modem Products infringe the claims of the '008 Patent, as described below, either directly under 35 U.S.C. § 271(a), or indirectly under 35 U.S.C. § 271(b)–(c).

#	U.S. Patent No. 8,792,008	Accused Products and Services
1pre	1. A system comprising:	The Accused Services are provided by the claimed system by utilizing, for example, the Accused
		Set Top Products, which include at least one set top box ("STB") located at each subscriber
		location, including, for example, the Arris AX013ANC STB, Arris AX013ANM STB, Arris
		AX014ANC STB, Arris AX014ANM STB, Arris MX011ANC STB, Arris MX011ANM STB,
		Pace PX013ANC STB, Pace PX013ANM STB, Pace PX022ANC STB, Pace PX022ANM STB,
		Samsung SX022ANC STB, Samsung SX022ANM STB, and products that operate in a similar
		manner.
		By way of example, the Arris AX013ANM is charted herein. As described below, the Arris
		AX013ANM has a Broadcom BCM33843 SoC. On informed belief, the Arris AX013ANM is
		representative of all Accused Set Top Products, including those having BCM3383, BCM3384,
		BCM33843, or BCM3390 SoCs.
1a	an analog-to-digital converter oper-	The Accused Set Top Products have an analog-to-digital converter operable to digitize a received
	able to digitize a received signal	signal spanning an entire television spectrum comprising a plurality of television channels, said
	spanning an entire television spec-	digitization resulting in a digitized signal as described below.
	trum comprising a plurality of tele-	
	vision channels, said digitization	Specifically, the Arris AX013ANM has applicable circuitry and/or software modules
	resulting in a digitized signal;	constituting an analog to digital converter. For example, the Arris AX013ANM has a Broadcom
		BCM33843 SoC, highlighted in red below.



#	U.S. Patent No. 8,792,008	Accused Products and Services
		The Arris AX013ANM receives the entire 1GHz downstream spectrum of a Comcast cable plant.
		The 1 GHz cable spectrum includes a plurality of television channels. The Arris AX013ANM
		digitizes the entire received signal; the digitization results in a digitized signal.
		"The new BCM3384 DOCSIS®/Euro-DOCSIS™ 3.0 cable gateway SoC combines Broadcom's
		Full-Band Capture (FBC) digital tuning technology with remote diagnostics, dual-band
		concurrent Wi-Fi, a custom, dedicated applications processor and integrated DECT 6.0 CAT-iq
		2.0 Broadcom's new BCM33843 is pin compatible Broadcom is now sampling [as of Jan
		08, 2031] the BCM3384 and BCM33843"
		(ENTROPIC_COMCAST_002035 at ENTROPIC_COMCAST_002036)
		"Full-Band Capture digital tuning technology and remote diagnostics: Integrated on-chip technology directly samples and digitizes the entire 1GHz downstream spectrum of a cable plant, providing access to any channel anywhere. Remote diagnostics provides real time, unobtrusive diagnostic and spectrum analysis capabilities, without effecting user service on any of the 24 downstream channels."  (ENTROPIC_COMCAST_002035 at ENTROPIC_COMCAST_002037)  Discovery will provide detailed information regarding implementation and identification of the specific components, source code, software and/or other instrumentalities used to implement the claimed method. As additional information is obtained through discovery related to the Accused
		Services and related instrumentalities, Entropic will supplement these contentions.
1b	a signal monitor operable to:	The Accused Set Top Products have has circuitry and/or applicable software modules constitut-
	Sim memor operation	ing a signal monitor as described below.
		Specifically, the Arris AX013ANM has applicable circuitry and/or software modules
		constituting a signal monitor. For example, the Arris AX013ANM has a Broadcom BCM33843
		SoC, which provides real time, unobtrusive diagnostic and spectrum analysis capabilities for an entire digitized signal.

#	U.S. Patent No. 8,792,008	Accused Products and Services
		"The new BCM3384 DOCSIS®/Euro-DOCSIS™ 3.0 cable gateway SoC combines Broadcom's Full-Band Capture (FBC) digital tuning technology with remote diagnostics, dual-band concurrent Wi-Fi, a custom, dedicated applications processor and integrated DECT 6.0 CAT-iq 2.0 Broadcom's new BCM33843 is pin compatible Broadcom is now sampling [as of Jan 08, 2031] the BCM3384 and BCM33843" (ENTROPIC_COMCAST_002035 at ENTROPIC_COMCAST_002036)
		"Full-Band Capture digital tuning technology and remote diagnostics: Integrated on-chip technology directly samples and digitizes the entire 1GHz downstream spectrum of a cable plant, providing access to any channel anywhere. Remote diagnostics provides real time, unobtrusive diagnostic and spectrum analysis capabilities, without effecting user service on any of the 24 downstream channels."  (ENTROPIC_COMCAST_002035 at ENTROPIC_COMCAST_002037)
		Discovery will provide detailed information regarding implementation and identification of the specific components, source code, software and/or other instrumentalities used to implement the claimed method. As additional information is obtained through discovery related to the Accused Services and related instrumentalities, Entropic will supplement these contentions.
1c	analyze said digitized signal to determine a characteristic of said digitized signal; and	The Accused Set Top Products analyze said digitized signal to determine a characteristic of said digitized signal as described below.  Specifically, the Arris AX013ANM includes remote diagnostics capabilities that provide real time, unobtrusive diagnostic and spectrum analysis capabilities. The Arris AX013ANM analyzes, using the signal monitor, said digitized signal to determine a characteristic of said digitized signal.

#	U.S. Patent No. 8,792,008	Accused Products and Services
		"The new BCM3384 DOCSIS®/Euro-DOCSIS™ 3.0 cable gateway SoC combines Broadcom's
		Full-Band Capture (FBC) digital tuning technology with remote diagnostics, dual-band concur-
		rent Wi-Fi, a custom, dedicated applications processor and integrated DECT 6.0 CAT-iq 2.0
		Broadcom's new BCM33843 is pin compatible Broadcom is now sampling [as of Jan 08,
		2031] the BCM3384 and BCM33843"
		(ENTROPIC_COMCAST_002035 at ENTROPIC_COMCAST_002036)
		"Full-Band Capture digital tuning technology and remote diagnostics: Integrated on-chip technology directly samples and digitizes the entire 1GHz downstream spectrum of a cable plant,
		providing access to any channel anywhere. Remote diagnostics provides real time, unobtrusive
		diagnostic and spectrum analysis capabilities, without effecting user service on any of the 24 downstream channels."
		(ENTROPIC_COMCAST_002035 at ENTROPIC_COMCAST_002037)
		Discovery will provide detailed information regarding implementation and identification of the
		specific components, source code, software and/or other instrumentalities used to implement the
		claimed method. As additional information is obtained through discovery related to the Accused
		Services and related instrumentalities, Entropic will supplement these contentions.
1d	report said determined characteris-	The Accused Set Top Products report said determined characteristic to a source of said received
	tic to a source of said received sig-	signal as described below.
	nal;	
		Specifically, the Arris AX013ANM includes remote diagnostics capabilities that provide real
		time, unobtrusive diagnostic and spectrum analysis capabilities. Upon information and belief,
		the Arris AX013ANM reports said determined characteristic to a source of said received signal,
		i.e. servers and/or services provided by and/or operated by Comcast. On informed belief,
		Comcast operates a PNM system that requests and obtains the determined characteristics and
		utilizes software algorithms to diagnose issues in the cable plant and proactively resolve these
		issues even if no report has been received from a customer.

	"The new BCM3384 DOCSIS®/Euro-DOCSIS™ 3.0 cable gateway SoC combines Broadcom's Full-Band Capture (FBC) digital tuning technology with remote diagnostics, dual-band concurrent Wi-Fi, a custom, dedicated applications processor and integrated DECT 6.0 CAT-iq 2.0 Broadcom's new BCM33843 is pin compatible Broadcom is now sampling [as of Jan 08, 2031] the BCM33843 and BCM33843" (ENTROPIC_COMCAST_002035 at ENTROPIC_COMCAST_002036)  "Full-Band Capture digital tuning technology and remote diagnostics: Integrated on-chip technology directly samples and digitizes the entire 1GHz downstream spectrum of a cable plant, providing access to any channel anywhere. Remote diagnostics provides real time, unobtrusive diagnostic and spectrum analysis capabilities, without effecting user service on any of the 24 downstream channels."  (ENTROPIC_COMCAST_002035 at ENTROPIC_COMCAST_002037)  "Wideband spectrum analysis has been demonstrated widely in the field as a very useful PNM tool which provides for a spectrum analyzer capability in CMs at as many locations as possible in the plant. Full-band capture in silicon permits the display to encompass the entire downstream spectrum. Figure 4 shows a spectrum of the received downstream signal at a CM. In this case, we observe fluctuations across the band in carrier amplitude, including a group of bonded carriers around 630 MHz with higher power than their neighbors. We see vacancies in the spectrum, and locations where unmodulated analog video carriers are used as pilots. The overall slope of the spectrum is generally flat; no major up-slope or downslope is seen and no appreciable ripple. We see a notch around 720 MHz indicating a power "suckout" that would cause a service outage on those channels. These determinations may be automated by software algorithms to analyze the spectral information. Clearly this plant requires maintenance, even if no call has yet been received from a customer."  (ENTROPIC_COMCAST_002938 at ENTROPIC_COMCAST_002944)

#	U.S. Patent No. 8,792,008	Accused Products and Services
		Discovery will provide detailed information regarding implementation and identification of the
		specific components, source code, software and/or other instrumentalities used to implement the
		claimed method. As additional information is obtained through discovery related to the Accused
		Services and related instrumentalities, Entropic will supplement these contentions.
1e	a data processor operable to pro-	The Arris AX013ANM has a data processor operable to process a television channel to recover
	cess a television channel to recover	content carried on the television channel as described below.
	content carried on the television	
	channel; and	Specifically, the Arris AX013ANM has circuitry and/or applicable software modules constitut-
		ing a data processor operable to process a television channel to recover content carried on the
		television channel. For example, the Arris AX013ANM has a Broadcom BCM33843 SoC. In
		the Arris AX013ANM, each digitally tuned television channel is provided to a digital demodu-
		lator that outputs a transport stream for use in broadcast services.
		"The new BCM3384 DOCSIS®/Euro-DOCSIS™ 3.0 cable gateway SoC combines Broadcom's
		Full-Band Capture (FBC) digital tuning technology with remote diagnostics, dual-band concur-
		rent Wi-Fi, a custom, dedicated applications processor and integrated DECT 6.0 CAT-iq 2.0
		Broadcom's new BCM33843 is pin compatible Broadcom is now sampling [as of Jan 08,
		2031] the BCM3384 and BCM33843"
		(ENTROPIC_COMCAST_002035 at ENTROPIC_COMCAST_002036)
		"Full-Band Capture digital tuning technology and remote diagnostics: Integrated on-chip tech-
		nology directly samples and digitizes the entire 1GHz downstream spectrum of a cable plant,
		providing access to any channel anywhere. Remote diagnostics provides real time, unobtrusive
		diagnostic and spectrum analysis capabilities, without effecting user service on any of the 24
		downstream channels."
		(ENTROPIC_COMCAST_002035 at ENTROPIC_COMCAST_002037)
		(LIVINGITE_COMENDI_002033 at LIVINGITE_COMENDI_002037)

#	U.S. Patent No. 8,792,008	Accused Products and Services
		Discovery will provide detailed information regarding implementation and identification of the
		specific components, source code, software and/or other instrumentalities used to implement the
		claimed method. As additional information is obtained through discovery related to the Accused
		Services and related instrumentalities, Entropic will supplement these contentions.
1f	a channelizer operable to:	The Accused Set Top Products have a channelizer as described below.
		Specifically, the Arris AX013ANM has circuitry and/or applicable software modules constituting a channelizer. For example, the Arris AX013ANM has a Broadcom BCM33843 SoC.
		"Full-Band Capture digital tuning technology and remote diagnostics: Integrated on-chip technology directly samples and digitizes the entire 1GHz downstream spectrum of a cable plant, providing access to any channel anywhere. Remote diagnostics provides real time, unobtrusive diagnostic and spectrum analysis capabilities, without effecting user service on any of the 24 downstream channels."  (ENTROPIC_COMCAST_002035 at ENTROPIC_COMCAST_002037)
		Discovery will provide detailed information regarding implementation and identification of the specific components, source code, software and/or other instrumentalities used to implement the claimed method. As additional information is obtained through discovery related to the Accused Services and related instrumentalities, Entropic will supplement these contentions.
1g	select a first portion of said digitized signal;	The Accused Set Top Products select a first portion of said digitized signal as described below.
		Specifically, the Arris AX013ANM includes advanced signal processing techniques that can be used to digitally select multiple channels simultaneously, including selecting a first portion of said digitized signal. <i>See</i> element 1b-d.
		"Full-Band Capture digital tuning technology and remote diagnostics: Integrated on-chip technology directly samples and digitizes the entire 1GHz downstream spectrum of a cable plant,

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		providing access to any channel anywhere. Remote diagnostics provides real time, unobtrusive
		diagnostic and spectrum analysis capabilities, without effecting user service on any of the 24
		downstream channels."
		(ENTROPIC_COMCAST_002035 at ENTROPIC_COMCAST_002037)
		Discovery will provide detailed information regarding implementation and identification of the
		specific components, source code, software and/or other instrumentalities used to implement the
		claimed method. As additional information is obtained through discovery related to the Accused
		Services and related instrumentalities, Entropic will supplement these contentions.
1h	select a second portion of said dig-	The Accused Set Top Products select a second portion of said digitized signal as described be-
	itized signal; and	low.
		Specifically, the Arris AX013ANM includes advanced signal processing techniques that can be
		used to digitally select multiple channels simultaneously, including selecting a second portion
		of said digitized signal. See element 1e.
		"Full-Band Capture digital tuning technology and remote diagnostics: Integrated on-chip tech-
		nology directly samples and digitizes the entire 1GHz downstream spectrum of a cable plant,
		providing access to any channel anywhere. Remote diagnostics provides real time, unobtrusive
		diagnostic and spectrum analysis capabilities, without effecting user service on any of the 24
		downstream channels."
		(ENTROPIC_COMCAST_002035 at ENTROPIC_COMCAST_002037)
		Discovery will provide detailed information regarding implementation and identification of the
		specific components, source code, software and/or other instrumentalities used to implement the
		claimed method. As additional information is obtained through discovery related to the Accused
		Services and related instrumentalities, Entropic will supplement these contentions.

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1i	concurrently output said first portion of said digitized signal to said signal monitor and said second portion of said digitized signal to said data processor.	The Accused Set Top Products concurrently output said first portion of said digitized signal to said signal monitor and said second portion of said digitized signal to said data processor as described below.  Specifically, the Arris AX013ANM includes remote diagnostics capabilities that provide real time, unobtrusive diagnostic and spectrum analysis capabilities without affecting user service on
		any downstream channels. As described above, the first portion of said digitized signal is output to said signal monitor and said second portion of said digitized signal is output to said data processor. Accordingly, the Arris AX013ANM concurrently outputs said first portion of said digitized signal to said signal monitor and said second portion of said digitized signal to said data processor.
		"The new BCM3384 DOCSIS®/Euro-DOCSIS™ 3.0 cable gateway SoC combines Broadcom's Full-Band Capture (FBC) digital tuning technology with remote diagnostics, dual-band concurrent Wi-Fi, a custom, dedicated applications processor and integrated DECT 6.0 CAT-iq 2.0 Broadcom's new BCM33843 is pin compatible Broadcom is now sampling [as of Jan 08, 2031] the BCM3384 and BCM33843" (ENTROPIC_COMCAST_002035 at ENTROPIC_COMCAST_002036)
		"Full-Band Capture digital tuning technology and remote diagnostics: Integrated on-chip technology directly samples and digitizes the entire 1GHz downstream spectrum of a cable plant, providing access to any channel anywhere. Remote diagnostics provides real time, unobtrusive diagnostic and spectrum analysis capabilities, without effecting user service on any of the 24 downstream channels."  (ENTROPIC_COMCAST_002035 at ENTROPIC_COMCAST_002037)
		Discovery will provide detailed information regarding implementation and identification of the specific components, source code, software and/or other instrumentalities used to implement the

	claimed method. As additional information is obtained through discovery related to the Accused
	Services and related instrumentalities, Entropic will supplement these contentions.
2. The system of claim 1, wherein	See 1g.
said first portion of said digitized	
signal spans said entire television	
spectrum.	
A method comprising:	The Accused Services are provided by the claimed system by utilizing, for example, the Accused
	Set Top Products, which include at least one set top box ("STB") located at each subscriber
	location, including, for example, the Arris AX013ANC STB, Arris AX013ANM STB, Arris
	AX014ANC STB, Arris AX014ANM STB, Arris MX011ANC STB, Arris MX011ANM STB,
	Pace PX013ANC STB, Pace PX013ANM STB, Pace PX022ANC STB, Pace PX022ANM STB,
	Samsung SX022ANC STB, Samsung SX022ANM STB, and products that operate in a similar
	manner, and/or the Accused Cable Modem Products including, for example, the Technicolor
	TC8717 cable modem, Technicolor CGM4140 cable modem, Technicolor CGM4331 cable mo-
	dem, and products that operate in a similar manner, located at each subscriber location.
	By way of example, the Technicolor CGM4140 cable modem is charted herein. As described
	below, the Technicolor CGM4140 has a Broadcom BCM3390 SoC. On informed belief, all cable
	modems deployed by or enabled by Comcast that contain the BCM3383, BCM3384, and
	BCM33843 series chips operate substantially the same as the BCM3390 series chips for purposes
	of the '008 Patent. As there are no functional differences between the BCM33843 SoC and
	BCM3390 SoC that impacts infringement of the '008 Patent, documents describing the operation
	of the BCM33843 SoC equally describe the operation of the BCM3390 SoC.
	signal spans said entire television

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		Therefore, the Technicolor CGM4140 is representative of all Accused Set Top Products and
		Accused Cable Modem Products, including those having BCM3383, BCM3384, BCM33843, or
		BCM3390 SoCs.
		Discovery will provide detailed information regarding implementation and identification of the
		specific components, source code, software and/or other instrumentalities used to implement the
		claimed method. As additional information is obtained through discovery related to the Accused
		Services and related instrumentalities, Entropic will supplement these contentions.
3a	performing by one or more circuits:	The Accused Set Top Products and the Accused Cable Modem Products have one or more cir-
		cuits that perform the claimed method as described below.
		Specifically, the Technicolor CGM4140 includes applicable circuitry and/or software modules
		performing the claimed method. For example, the Technicolor CGM4140 has a Broadcom
		BCM3390 SoC.

#	U.S. Patent No. 8,792,008	Accused Products and Services
		BROADCOM. BCM3390ZKFSBG TA1636 P20 625764-08 P3A W  20540 20
3b	receiving a signal having a bandwidth that spans from a first frequency, F <sub>lo</sub> , to a second frequency, F <sub>hi</sub> , wherein said signal carries a plurality of channels;	

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		GHz cable spectrum includes a plurality of channels. On informed belief, the plurality of chan-
		nels includes television channels and data channels. The Technicolor CGM4140, using its appli-
		cable circuity and/or software modules, digitizes the entire received signal resulting in a digitized signal.
		"Full-Band Capture digital tuning technology and remote diagnostics: Integrated on-chip technology directly samples and digitizes the entire 1GHz downstream spectrum of a cable plant,
		providing access to any channel anywhere. Remote diagnostics provides real time, unobtrusive diagnostic and spectrum analysis capabilities, without effecting user service on any of the 24 downstream channels."
		(ENTROPIC_COMCAST_002035 at ENTROPIC_COMCAST_002037)
		Discovery will provide detailed information regarding implementation and identification of the
		specific components, source code, software and/or other instrumentalities used to implement the
		claimed method. As additional information is obtained through discovery related to the Accused
		Services and related instrumentalities, Entropic will supplement these contentions.
3c	digitizing said received signal from	The Accused Set Top Products and the Accused Cable Modem Products perform the method of
	F <sub>lo</sub> to F <sub>hi</sub> to generate a digitized	digitizing said received signal from F <sub>lo</sub> to F <sub>hi</sub> to generate a digitized signal as described below.
	signal;	The Technicolor CGM4140 includes applicable circuitry and/or software modules providing an
		analog to digital converter, for example a Broadcom BCM3390 SoC. The Technicolor
		CGM4140 receives the entire ~1GHz downstream spectrum of a Comcast cable plant. The Tech-
		nicolor CGM4140, using its applicable circuity and/or software modules, digitizes the entire
		received signal resulting in a digitized signal.
		"Full-Band Capture digital tuning technology and remote diagnostics: Integrated on-chip
		technology directly samples and digitizes the entire 1GHz downstream spectrum of a cable plant,
		providing access to any channel anywhere. Remote diagnostics provides real time, unobtrusive

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		diagnostic and spectrum analysis capabilities, without effecting user service on any of the 24
		downstream channels."
		(ENTROPIC_COMCAST_002035 at ENTROPIC_COMCAST_002037)
		Discovery will provide detailed information regarding implementation and identification of the
		specific components, source code, software and/or other instrumentalities used to implement the
		claimed method. As additional information is obtained through discovery related to the Accused
		Services and related instrumentalities, Entropic will supplement these contentions.
3d	selecting a first portion of said	The Accused Set Top Products and the Accused Cable Modem Products perform the method of
	digitized signal;	selecting a first portion of said digitized signal as described below.
		The Technicolor CGM4140 includes applicable circuitry and/or software modules for selecting
		a first portion of the digitized signal, for example a Broadcom BCM3390 SoC. See element 1b-
		d.
		u.
		"The new BCM3384 DOCSIS®/Euro-DOCSIS™ 3.0 cable gateway SoC combines Broadcom's
		Full-Band Capture (FBC) digital tuning technology with remote diagnostics, dual-band
		concurrent Wi-Fi, a custom, dedicated applications processor and integrated DECT 6.0 CAT-iq
		2.0 Broadcom's new BCM33843 is pin compatible Broadcom is now sampling [as of Jan]
		08, 2031] the BCM3384 and BCM33843"
		(ENTROPIC_COMCAST_002035 at ENTROPIC_COMCAST_002036)
		"Full-Band Capture digital tuning technology and remote diagnostics: Integrated on-chip
		technology directly samples and digitizes the entire 1GHz downstream spectrum of a cable plant,
		providing access to any channel anywhere. Remote diagnostics provides real time, unobtrusive
		diagnostic and spectrum analysis capabilities, without effecting user service on any of the 24
		downstream channels."
		(ENTROPIC_COMCAST_002035 at ENTROPIC_COMCAST_002037)

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		Discovery will provide detailed information regarding implementation and identification of the
		specific components, source code, software and/or other instrumentalities used to implement the
		claimed method. As additional information is obtained through discovery related to the Accused
		Services and related instrumentalities, Entropic will supplement these contentions.
3e	selecting a second portion of said	The Accused Set Top Products and the Accused Cable Modem Products perform the method of
	digitized signal; and	selecting a first portion of said digitized signal as described below.
		The Technicolor CGM4140 includes applicable circuitry and/or software modules for selecting a second portion of the digitized signal, for example a Broadcom BCM3390 SoC. <i>See</i> element 1e.
		"The new BCM3384 DOCSIS®/Euro-DOCSIS™ 3.0 cable gateway SoC combines Broadcom's Full-Band Capture (FBC) digital tuning technology with remote diagnostics, dual-band concurrent Wi-Fi, a custom, dedicated applications processor and integrated DECT 6.0 CAT-iq 2.0 Broadcom's new BCM33843 is pin compatible Broadcom is now sampling [as of Jan 08, 2031] the BCM3384 and BCM33843" (ENTROPIC_COMCAST_002035 at ENTROPIC_COMCAST_002036)
		"Full-Band Capture digital tuning technology and remote diagnostics: Integrated on-chip technology directly samples and digitizes the entire 1GHz downstream spectrum of a cable plant, providing access to any channel anywhere. Remote diagnostics provides real time, unobtrusive diagnostic and spectrum analysis capabilities, without effecting user service on any of the 24 downstream channels."  (ENTROPIC_COMCAST_002035 at ENTROPIC_COMCAST_002037)
		Discovery will provide detailed information regarding implementation and identification of the specific components, source code, software and/or other instrumentalities used to implement the

#	U.S. Patent No. 8,792,008	Accused Products and Services
		claimed method. As additional information is obtained through discovery related to the Accused Services and related instrumentalities, Entropic will supplement these contentions.
3f	concurrently outputting said selected first portion and said selected second portion, wherein:	
		(ENTROPIC_COMCAST_002035 at ENTROPIC_COMCAST_002036)  "Full-Band Capture digital tuning technology and remote diagnostics: Integrated on-chip technology directly samples and digitizes the entire 1GHz downstream spectrum of a cable plant, providing access to any channel anywhere. Remote diagnostics provides real time, unobtrusive diagnostic and spectrum analysis capabilities, without effecting user service on any of the 24 downstream channels."  (ENTROPIC_COMCAST_002035 at ENTROPIC_COMCAST_002037)

#	U.S. Patent No. 8,792,008	Accused Products and Services
		Discovery will provide detailed information regarding implementation and identification of the specific components, source code, software and/or other instrumentalities used to implement the claimed method. As additional information is obtained through discovery related to the Accused Services and related instrumentalities, Entropic will supplement these contentions.
3g	said selected first portion is output to a signal analyzer which analyzes said selected first portion to determine one or more characteristics of the received signal,	The Accused Set Top Products and the Accused Cable Modem Products perform the method of concurrently outputting said selected first portion to a signal analyzer which analyzes said selected first portion to determine one or more characteristics of the received signal and which reports said determined one or more characteristics to a source of said received signal as described below.
	Signat,	The Technicolor CGM4140 includes applicable circuitry and/or software modules operable as a signal monitor. This includes diagnostic features such as spectrum analysis for the entire input band. On informed belief, the Technicolor CGM4140 can analyze the digitized signal as a single band or in segments. When the digitized signal is analyzed in segments, applicable circuitry and/or software modules of the Technicolor CGM4140 analyze a sequence of segments of the entire digitized signal and the individual analysis segments are combined to monitor the entire digitized signal. On informed belief, the Technicolor CGM4140 determines characteristics of the digitized signal, such as signal strength and/or signal power vs. frequency.
		"The new BCM3384 DOCSIS®/Euro-DOCSIS™ 3.0 cable gateway SoC combines Broadcom's Full-Band Capture (FBC) digital tuning technology with remote diagnostics, dual-band concurrent Wi-Fi, a custom, dedicated applications processor and integrated DECT 6.0 CAT-iq 2.0 Broadcom's new BCM33843 is pin compatible Broadcom is now sampling [as of Jan 08, 2031] the BCM3384 and BCM33843" (ENTROPIC_COMCAST_002035 at ENTROPIC_COMCAST_002036)
		"Full-Band Capture digital tuning technology and remote diagnostics: Integrated on-chip technology directly samples and digitizes the entire 1GHz downstream spectrum of a cable plant,

#	U.S. Patent No. 8,792,008	Accused Products and Services
		providing access to any channel anywhere. Remote diagnostics provides real time, unobtrusive
		diagnostic and spectrum analysis capabilities, without effecting user service on any of the 24
		downstream channels."
		(ENTROPIC_COMCAST_002035 at ENTROPIC_COMCAST_002037)
		Discovery will provide detailed information regarding implementation and identification of the
		specific components, source code, software and/or other instrumentalities used to implement the
		claimed method. As additional information is obtained through discovery related to the Accused
		Services and related instrumentalities, Entropic will supplement these contentions.
3h	and which reports said determined	The Accused Set Top Products and the Accused Cable Modem Products perform the method of
	one or more characteristics to a	reporting said determined one or more characteristics to a source of said received signal as de-
	source of said received signal; and	scribed below.
		Specifically, the Technicolor CGM4140, using its applicable circuity and/or software modules,
		is operable to report the determined one or more characteristic to a source of said received signal.
		The Technicolor CGM4140 sends the results of the analysis of the digitized signal, including the
		determined characteristic, to servers and/or systems provided by and/or operated by Comcast.
		For example, the Technicolor CGM4140provides information to a PNM system operated by
		Comcast. This allows the received signals to be analyzed at a customer's premises (e.g., where
		the Technicolor CGM4140 is located) and the characteristics of the received signals can be remotely analyzed without driving to the customer's premises or accessing the in-home wiring.
		motery analyzed without driving to the customer's premises of accessing the mi-nome wiring.
		"Full-Band Capture digital tuning technology and remote diagnostics: Integrated on-chip
		technology directly samples and digitizes the entire 1GHz downstream spectrum of a cable plant,
		providing access to any channel anywhere. Remote diagnostics provides real time, unobtrusive
		diagnostic and spectrum analysis capabilities, without effecting user service on any of the 24
		downstream channels."
		(ENTROPIC_COMCAST_002035 at ENTROPIC_COMCAST_002037)

#	U.S. Patent No. 8,792,008	Accused Products and Services
		"Wideband spectrum analysis has been demonstrated widely in the field as a very useful PNM
		tool which provides for a spectrum analyzer capability in CMs at as many locations as possible
		in the plant. Full-band capture in silicon permits the display to encompass the entire downstream
		spectrum. Figure 4 shows a spectrum of the received downstream signal at a CM. In this case,
		we observe fluctuations across the band in carrier amplitude, including a group of bonded
		carriers around 630 MHz with higher power than their neighbors. We see vacancies in the
		spectrum, and locations where unmodulated analog video carriers are used as pilots. The overall
		slope of the spectrum is generally flat; no major up-slope or downslope is seen and no
		appreciable ripple. We see a notch around 720 MHz indicating a power "suckout" that would
		cause a service outage on those channels. These determinations may be automated by software
		algorithms to analyze the spectral information. Clearly this plant requires maintenance, even if
		no call has yet been received from a customer."
		(ENTROPIC_COMCAST_002938 at ENTROPIC_COMCAST_002944)
		Discovery will provide detailed information regarding implementation and identification of the
		specific components, source code, software and/or other instrumentalities used to implement the
		claimed method. As additional information is obtained through discovery related to the Accused
21		Services and related instrumentalities, Entropic will supplement these contentions.
3i	said selected second portion is	The Accused Set Top Products and the Accused Cable Modem Products perform the method of
	output to a data processor for	concurrently outputting said selected second portion to a data processor for recovery of data
	recovery of data carried on one or	carried on one or more of said plurality of channels as described below.
	more of said plurality of channels.	The Test wise 1 of CCM 4140 is also 1 of a second s
		The Technicolor CGM4140 includes applicable circuitry and/or software modules that function
		as a data processor operable to process a channel to recover content carried on the channel. For
		example, Technicolor CGM4140 includes Broadcom BCM3390 SoC implementing, via its circuitry and/or applicable software modules, a tuner, a demodulator and/or a decoder. For example,
		the Technicolor CGM4140, using its applicable circuitry and/or software modules, can process
		one or more channels to recover a data carried on the channel (s).
		one of more channels to recover a data carried on the channel (s).

#	U.S. Patent No. 8,792,008	Accused Products and Services
		"Full-Band Capture digital tuning technology and remote diagnostics: Integrated on-chip
		technology directly samples and digitizes the entire 1GHz downstream spectrum of a cable plant,
		providing access to any channel anywhere. Remote diagnostics provides real time, unobtrusive
		diagnostic and spectrum analysis capabilities, without effecting user service on any of the 24 downstream channels."
		(ENTROPIC_COMCAST_002035 at ENTROPIC_COMCAST_002037)
		Discovery will provide detailed information regarding implementation and identification of the
		specific components, source code, software and/or other instrumentalities used to implement the
		claimed method. As additional information is obtained through discovery related to the Accused
		Services and related instrumentalities, Entropic will supplement these contentions.
4	The method of claim 3, wherein	See 3h.
	said first portion comprises all of	
	said received signal from F <sub>lo</sub> to F <sub>hi</sub> .	
5	The method of claim 3, wherein	See 3g.
	said one or more characteristics is	
	one of: signal power vs. frequency,	
	phase vs. frequency, signal-to-	
	noise ratio, peak-to-average ratio,	
	noise levels, bit error rate, and	
	symbol error rate.	
6	The method of claim 3, wherein:	See 3b.
	said received signal is a cable	
	television signal; and	

#	U.S. Patent No. 8,792,008	Accused Products and Services
	said plurality of channels	
	comprises a plurality of television	
	channels.	
9	The method of claim 3, wherein	The one or more circuits reside in a customer premises gateway as described below.
	said one or more circuits reside in a	
	customer premises gateway.	Specifically, the Accused Set Top Products and the Accused Cable Modem Products, for exam-
		ple the Technicolor CGM4140 constitutes a customer premises gateway. For example, the Tech-
		nicolor CGM4140 includes applicable circuitry and/or software modules constituting the one or more circuits.
		Discovery will provide detailed information regarding implementation and identification of the specific components, source code, software and/or other instrumentalities used to implement the claimed method. As additional information is obtained through discovery related to the Accused Services and related instrumentalities, Entropic will supplement these contentions.
10	The method of claim 3, wherein a	See 3g.
	bandwidth and/or center frequency	
	of said selected first portion is	
	configurable during operation of	
	said one or more circuits.	